

PO Job Risk Assessment

Name(s) of Risk Team Members: F. Lincoln, B. Schoenig, C. Thorn, M. Zarcone (facilitator)	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Routine chemical use Job Number or Job Identifier: PO-JRA-017	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Use of alcohols, acetone, epoxies, glues, paints, lubricants and other common industrial and household chemicals. Typically used for small scale cleaning, adhesion, and lubricating applications, without mixing or reacting different chemicals unless part of their intended use (e.g., epoxies).	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional):	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Rev. #: 0	Date: March 29, 2005					
Stressors (if applicable, please list all):		Reason for Revision (if applicable):			Comments:	

				Before Additional Controls						After Additional Controls						
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction

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				Before Additional Controls							After Additional Controls					
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Storing containers	Fire, spill, chemical reactions, exposure via inhalation	Segregation of hazard types, flammable and acid cabinets, CMS, work planning, PPE, area monitoring, ventilation, secondary containment, spill response, use of safer substitutes, Tier 1, container labeling, area posting, shelf-life monitoring, containers specific for the hazard	Y	1	5	1	4	20								
Moving containers within the lab	Spillage via tripping/dropping	CMS, work planning, PPE, area monitoring, secondary containment, spill response, Tier 1, container labeling, containers specific for the hazard	N	1	5	1	2	10								
Applying chemical to object (via kimwipe, spray, etc.)	Fire	MSDS, CMS, ventilation, keep away from flames and spark-producing devices, non-flammable substitutes, use minimum amount, work planning	N	1	5	3	1	15								
	Exposure to skin, eye, direct reaction or sensitization	MSDS, CMS, ventilation, PPE, use minimum amount, work planning, use different product	N	1	5	2	3	30								
	Exposure via inhalation	MSDS, CMS, ventilation, PPE, use minimum amount, work planning, work in hood if possible	N	1	5	2	3	30								

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Mixing chemicals as intended by product (e.g., epoxy)	Exposure to skin, direct reaction or sensitization	MSDS, CMS, ventilation, PPE, use minimum amount, work planning, use different product, use applicator nozzles	N	1	3	1	3	9								
	Exposure via inhalation	MSDS, CMS, ventilation, PPE, use minimum amount, work planning, work in hood if possible	N	1	3	2	3	18								
Adding or changing oil in pumps	Exposure	Training, turn machines off before task, gloves, eye protection	N	1	2	1	2	4								
Adding or changing oil in pumps	Tripping due to spills	Training	N	1	2	3	1	6								
Using chemicals in ultrasonic cleaner	Exposure due to inhalation	PPE, use automatic timer and keep away during operation	N	1	2	2	3	12								
Transporting of chemicals to other locations outside a building but within BNL	Spillage via tripping/dropping; exposure to vapors, mists, dusts	Work planning, procedure; PPE; small volumes; secondary containment; spill response; hazardous and radioactive waste controls; use of safer substitutes; container labeling; containers specific for the hazard	Y	1	4	1	2	8								
Further Description of Controls Added to Reduce Risk:																

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*Risk:	0 to 20 Negligible	21 to 40 Acceptable		41 to 60 Moderate					61 to 80 Substantial		81 or greater Intolerable					